## IN THE CLAIMS

- 1. (currently amended) A method of detecting cancer cells in a biological sample from a mammal, the method comprising steps of:
  - (i) providing the biological sample from the mammal; and
  - (ii) detecting a nucleic acid molecule that encodes a PRC17 polypeptide, comprising at least 95% amino acid sequence identity to which comprises the amino acid sequence of SEQ ID NO:2 in the biological sample, wherein an increase in the level of the nucleic acid molecule in the sample compared to normal indicates the presence of cancer cells.
  - 2. (canceled)
  - 3. (original) The method of claim 1, wherein the detecting step further comprises:
  - (a) contacting the nucleic acid molecule with a probe under conditions in which the probe selectively hybridizes to the nucleic acid molecule to form a stable hybridization complex; and
    - (b) detecting the hybridization complex.
- 4. (previously presented) The method of claim 3, wherein the contacting step further comprises a step of amplifying the nucleic acid in an amplification reaction.
- 5. (original) The method of claim 4, wherein the amplification reaction is a polymerase chain reaction.
  - 6. (original) The method of claim 1, wherein the nucleic acid is an mRNA.
  - 7. (original) The method of claim 1, wherein the biological sample is a tissue biopsy.
- 8. (original) The method of claim 7, wherein the cancer cells are selected from the group consisting of prostate tissue, breast tissue, lung tissue, and ovarian tissue.

- 9. (original) The method of claim 1, wherein the mammal is a human.
- 10. (withdrawn) A method of detecting a presence of cancer cells in a biological sample from a mammal, the method comprising steps of:
  - (i) providing the biological sample from the mammal; and
  - (ii) detecting an overexpression of a polypeptide comprising polypeptide comprising at least 85% amino acid sequence identity to an the amino acid sequence of SEQ ID NO:2 or at least 70% amino acid identity to an amino acid sequence of SEQ ID NO:4 or SEQ ID NO:6 in the biological sample, thereby detecting the presence of cancer cells in the biological sample.
  - 11. (canceled)
- 12. (withdrawn) The method of claim 10, wherein the polypeptide is detected using an antibody that selectively binds to the polypeptide.
- 13. (withdrawn) The method of claim 10, wherein the biological sample is a tissue biopsy.
- 14. (withdrawn) The method of claim 10, wherein the cancer cells are selected from the group consisting of prostate cancer cells, breast cancer cells, lung cancer cells, and ovarian cancer cells.
  - 15. (withdrawn) The method of claim 10, wherein the mammal is a human.
- 16. (withdrawn) A method of monitoring the efficacy of a therapeutic treatment of a cancer, the method comprising the steps of:
  - (i) providing a biological sample from a mammal undergoing the therapeutic treatment; and

- (ii) detecting a level of a polypeptide comprising at least 85% amino acid sequence identity to an the amino acid sequence of SEQ ID NO:2 or at least 70% amino acid identity to an amino acid sequence of SEQ ID NO:4 or SEQ ID NO:6 in the biological sample compared to a level in a biological sample from the mammal prior to, or earlier in, the therapeutic treatment, thereby monitoring the efficacy of the therapy.
- 17. (canceled)
- 18. (withdrawn) The method of claim 16, wherein the cancer is selected from the group consisting of prostate cancer, ovarian cancer, lung cancer, and breast cancer.
- 19. (withdrawn) The method of claim 16, wherein the polypeptide is detected using an antibody that selectively binds to the polypeptide.
- 20. (withdrawn) A method of monitoring the efficacy of a therapeutic treatment of a cancer, the method comprising the steps of:
  - (i) providing a biological sample from a mammal undergoing the therapeutic treatment; and
  - (ii) detecting a nucleic acid molecule encoding a PRC17 polypeptide comprising at least 85% amino acid sequence identity to an the amino acid sequence of SEQ ID NO:2 or at least 70% amino acid identity to an amino acid sequence of SEQ ID NO:4 or SEQ ID NO:6 in the biological sample compared to a level in a biological sample from the mammal prior to, or earlier in, the therapeutic treatment, thereby monitoring the efficacy of the therapy.
  - 21-43. (canceled)
- 44. (previously presented) The method of claim 1, wherein the nucleic acid comprises the nucleic acid sequence set forth in SEQ ID NO:1.